# CLAIMS

What is claimed is:

1. A method comprising:

processing a polymer selected from the group consisting of a precursor to an electrically conductive polymer and an electrically conductive polymer in a solvent comprising a fluorinated solvent.

2. A method according to claim 1 wherein said polymer is in a solution of said fluorinated solvent and less than about 20 weight % of said solution.

3. A method according to claim 1 wherein said precursor polymers to said electrically conductive polymers are selected from the group consisting of substituted and unsubstituted polyparaphenylenes, polyparaphenylevevinylenes, polyanilines,polyazines, polythiophenes, polythianaphthenes, polyphenylenesulfides, polyfuranes, polypyrroles, polyselenophenes, polyacetylenes and combinations thereof and copolymers of monomers thereof.

4. A method according to claim 1 wherein said processing is selected from the group consisting of synthesizing said polymer in said solvent and solvating said polymer in said solvent.

5. A method according to claim 1 wherein said polymer is a precursor to an electrically conductive polymer and exposed to said solvent while said precursor is exposed to a dopant.

6. A method of forming a polymer selected from group consisting of a precursor to an electrically conductive polymer and an electrically conductive polymer comprising: exposing a solution of polymerizable units to a solvent comprising a fluorinated solvent during polymerization to form said polymer.

7. A method comprising:

polymerizing monomers in the presence of a solvent comprising a fluorinated solvent to form an electrically conductive polymer; during neutralization of said electrically conductive polymer to an undoped form to form a deaggregated nondoped form of said electrically conductive polymer.

8. A method according to claim 1 wherein said solvent comprises a combination of said flurinated solvent and a nonfluorinated solvent.

9. A method according to claim 1 wherein said polymer is in a solution and is less than about 5 weight percent of said solution.
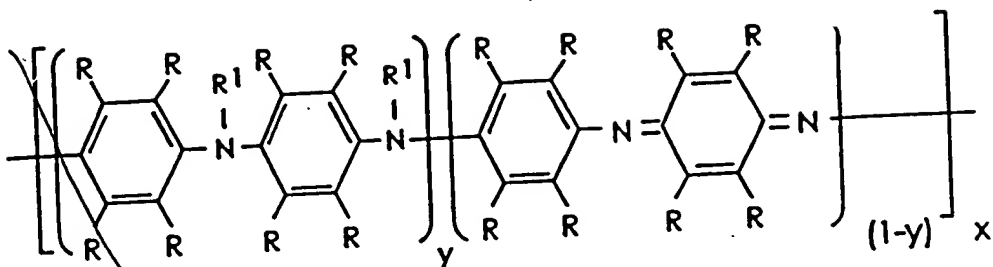
10. A method according to claim 6 wherein said polymerizable units are selected form the group consisting of one or more of monomers and oligomers.

11. A method according to claim 1 wherein said polymer is in a form selected from the group consisting of a solution and a solid state.

12. A method according to claim 1 wherein

13. A method according to claim 1 wherein said polymer is a polyaniline.

21. A method according to claim 1 wherein said polymer is polyaniline having structural formula:

wherein each R can be H or any organic or inorganic radical; each

R can be the same or different; wherein each R

sup 1

can be H or any organic or inorganic radical, each R

sup 1

can be the same or different;
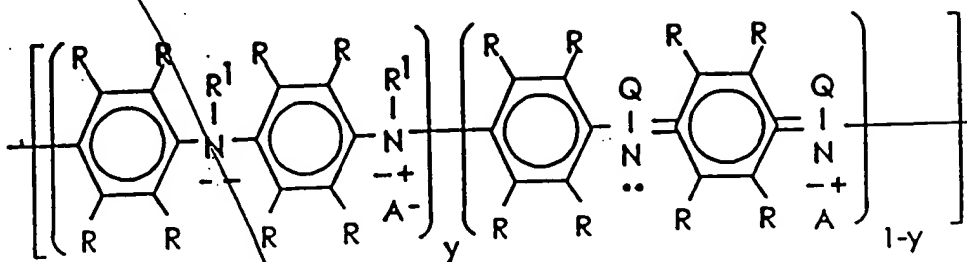
$x \geq 1$

; preferably

$x \geq 2$

;y has a value of 0.5 or said nonreduced or nonoxidized form; y

has a value from greater than 0.5 to 1 for said reduced form and

y has a value from less than 0.5 to 0 said oxidized form

22. A method according to claim 1 wherein said polymer is a

polyaniline having structural formula:



wherein each R can be H or any organic or inorganic radical; each

R can be the same or different; wherein each R

sup 1

can be H or any organic or inorganic radical, each R

sup 1

can be the same or different;

$x \geq 1$

; preferably

$x \geq 2$

;y has a value of 0.5 or said nonreduced or nonoxidized form; y

has a value from greater than 0.5 to 1 for said reduced form and

y has a value from less than 0.5 to 0 said oxidized form.

23. A method according to claim 1 wherein said solvent comprises more than one fluorinated solvent.

24. A method according to claim 1 further including forming from said polymer an object selected from the group consisting of a film, a fiber, or a structural part.

25. A method according to claim 1 wherein an electrically conducting polymer is formed having a level of electrical conductivity thereof which is varied by varying the concentration of said polymer in siad solution.

26. A method according to claim 1 wherein an electrically conducting polymer or precursor is blended with a thermoset or thermoplastic polymer.